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| US . 20070036402 A1 | US- PGPUB | 20070215 | Abnormality detection in medical images | 382/128 | | Cahill; Nathan D. et al. |
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| US 20060029291 A1 | US- PGPUB | 20060209 | Multimodal image registration using compound mutual information | 382/294 | | Sun; Zhaohui et al. |
| US 20050264658 A1 | US- PGPUB | 20051201 | Face detecting camera and method | 348/239 | 348/207.99 | Ray, Lawrence A. et al. |
| US 20050259780 A1 | US- PGPUB | 20051124 | Method for reconstructing tomographic images | 378/4 | | Goodgame, Marvin M. et al. |
| US 20050228293 A1 | US- PGPUB | 20051013 | System and method for classifying in vivo images according to anatomical structure | 600/478 | 600/407; 600/421 | Cahill, Nathan D. et al. |
| US 20050215876 A1 | US- PGPUB | 20050929 | Method and system for automatic image adjustment for in vivo image diagnosis | 600/407 | | Chen, Shoupu et al. |
| US 20050196023 A1 | US- PGPUB | 20050908 | Method for real-time remote diagnosis of in vivo images | 382/128 | · | Chen, Shoupu et al. |
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| US 20050129288 A1 | US- PGPUB | 20050616 | Method and computer program product for locating facial features | 382/118 | 382/117; 382/190; 382/225 | Chen, Shoupu et al. |
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| US 20050105803 A1 | US- PGPUB | 20050519 | Method for selecting an emphasis image from an image collection based upon content recognition | 382/209 | 348/231.2 | Ray, Lawrence A. |

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| US | US- | 20050407 | Method and system for real- | 600/109 | 600/476 | Chen, Shoupu |
| 20050075537 | PGPUB | 20030407 | time automatic abnormality | 000/107 | 000/4/0 | et al. |
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| US | US- | 20041028 | | 382/199 | 202/117. | Chan Ohan |
| 20040213460 | PGPUB | 20041028 | Method of human figure | 362/199 | 382/117; | Chen, Shoupu |
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| 20040156034 | PGPUB | | video sequences with a | | | D. et al. |
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| US | US- | 20040805 | Method for face orientation | 382/165 | <u> </u> | Chen, Shoupu |
| 20040151371 | PGPUB | 200.0005 | determination in digital color | 302,103 | | et al. |
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| US 20040008267 A1 | US- PGPUB | 20040115 | Method and apparatus for generating images used in extended range image composition | 348/229.1 | | Chen, Shoupu et al. |
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| US 20030223618 A1 | US- PGPUB | 20031204 | Stabilization of three- dimensional images in a scannerless range imaging system | 382/107 | 382/154 | Cahill, Nathan D. et al. |
| US 20030178549 A1 | US- PGPUB | 20030925 | Scannerless range imaging system having high dynamic range | 250/208.1 | | Ray, Lawrence A. |
| US 20030147002 A1 | US- PGPUB | 20030807 | Method and apparatus for a color sequential scannerless range imaging system | 348/370 | 348/217.1; 348/223.1; 348/273; 348/368 | Ray, Lawrence A. et al. |
| US 20030117584 A1 | US- PGPUB | 20030626 | Apparatus and method for inserting an updateable hidden image into an optical path | 352/90 | | Revelli, Joseph F. JR. et al. |
| US 20030113035 A1 | US- PGPUB | 20030619 | Method and system for compositing images to produce a cropped image | 382/284 | | Cahill, Nathan D. et al. |
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| US 20030091226 A1 | US- PGPUB | 20030515 | Method and apparatus for three- dimensional scene modeling and reconstruction | 382/154 | | Cahill, Nathan D. et al. |
| US 20030091225 A1 | US- PGPUB | 20030515 | Method for forming a depth image from digital image data | 382/145 | | Chen, Shoupu |
| US 20030090496 A1 | US- PGPUB | 20030515 | Method and system for panoramic image morphing | 345/646 | | Cahill, Nathan D. et al. |
| US 20030086002 A1 | US- PGPUB | 20030508 | Method and system for compositing images | 348/218.1 | | Cahill, Nathan D. et al. |
| US 20030053663 A1 | US- PGPUB | 20030320 | Method and computer program product for locating facial features | 382/117 | 382/118 | Chen, Shoupu et al. |
| US 20030048921 A1 | US- PGPUB | 20030313 | Method for embedding digital information in a three dimensional image from a scannerless range imaging system | 382/100 | | Cahill, Nathan D. et al. |
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| US 20030016846 A1 | US- PGPUB | 20030123 | Method for automatically locating eyes in an image | 382/117 | 382/165; 382/209 | Chen, Shoupu et al. |
| US 20020196975 A1 | US- PGPUB | 20021226 | Population mixture modeling with an indeterminate number of sub-populations | 382/171 | 382/173 | Cahill, Nathan D. |
| US 20020172514 A1 | US- PGPUB | 20021121 | LED illumination device for a scannerless range imaging system | 396/109 | | Gabello, Louis R. et al. |
| US 20020154812 A1 | US- PGPUB | 20021024 | Three dimensional spatial panorama formation with a range imaging system | 382/154 | | Chen, Shoupu et al. |
| US 20020114495 A1 | US- PGPUB | 20020822 | Multi-mode digital image processing method for detecting eyes | 382/117 | | Chen, Shoupu et al. |
| US 20020106112 A1 | US- PGPUB | 20020808 | Digital image processing method and computer program product for detecting human irises in an image | 382/117 | 382/165 | Chen, Shoupu et al. |
| US 7162102 B2 | USPAT | 20070109 | Method and system for compositing images to produce a cropped image | 382/288 | 382/284 | Cahill; Nathan D. et al. |
| US 7120279 B2 | USPAT | 20061010 | Method for face orientation determination in digital color images | 382/118 | 382/164 | Chen; Shoupu et al. |
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| US 7103219 B2 | USPAT | 20060905 | Population mixture modeling with an indeterminate number of sub-populations | 382/171 | 382/170; 382/172 | Cahill; Nathan D. |
| US 7092554 B2 | USPAT | 20060815 | Method for detecting eye and mouth positions in a digital image | 382/118 | 382/165; 382/225 | Chen; Shoupu et al. |
| US 7058209 B2 | USPAT | 20060606 | Method and computer program product for locating facial features | 382/117 | 382/118; 382/225; 382/291 | Cḥen; Shoupu et al. |
| US 7042974 B2 | USPAT | 20060509 | Method for reconstructing tomographic images | 378/4 | 378/901 | Goodgame; Marvin M. et al. |
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| US 7024054 B2 | USPAT | 20060404 | Method and system for generating a foreground mask for a composite image | 382/294 | 345/589; 348/564; 348/586; 382/103 | Cahill; Nathan D. et al. |
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| US 6925195 B2 | USPAT | 20050802 | Stabilization of three- dimensional images in a scannerless range imaging system | 382/107 | 382/154 | Cahill; Nathan D. et al. |
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| US 6891966 B2 | USPAT | 20050510 | Method for forming a depth image from digital image data | 382/145 | 382/173; 382/205; 382/274 | Chen; Shoupu |
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| US 6792134 B2 | USPAT | 20040914 | Multi-mode digital image processing method for detecting eyes | 382/117 | 340/5.53; 340/5.83; 345/171; 345/172; 382/118; 382/164; 382/192; 382/203; 382/225 | Chen; Shoupu et al. |
| US 6711286 B1 | USPAT | 20040323 | Method for blond-hair-pixel removal in image skin-color detection | 382/162 | 358/515; 358/518; 358/520; 358/523; 382/167; 382/275 | Chen; Shoupu et al. |
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| US 6624874 B2 | USPAT | 20030923 | Apparatus and method for inserting an updateable hidden image into an optical path | 352/90 | 352/40; 352/85; 380/200 | Revelli, Jr.; Joseph F. et al. |
| US 6584283 B2 | USPAT | 20030624 | LED illumination device for a scannerless range imaging system | 396/109 | 348/135; 356/5.1; 356/5.15 | Gabello; Louis R. et al. |
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| US 6536665 B1 | USPAT | 20030325 | Method and apparatus for transaction card security utilizing embedded image data | 235/380 | 235/379; 235/382; 235/435 | Ray; Lawrence A. et al. |
| US 6507706 B1 | USPAT | 20030114 | Color scannerless range imaging system using an electromechanical grating | 396/106 | 356/5.1 | Brazas; John C. et al. |
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| ,B1 ° | | | environment map containing information extracted from stereo image pairs | | 382/285; 382/294 | D. et al. |
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| US 6321981 B1 | USPAT | 20011127 | Method and apparatus for transaction card security utilizing embedded image data | 235/380 | 235/382 | Ray; Lawrence A. et al. |
| US 6288776 B1 | USPAT | 20010911 | Method for unambiguous range estimation | 356/5.1 | 356/496 | Cahill; Nathan D. et al. |
| US 6284445 B1 | USPAT | 20010904 | Reference calibration patch arrangement to minimize exposure and measurement artifacts and maximize robustness to defects | 430/495.1 | 430/359 | Keech; John T. et al. |
| US 6169858 B1 | USPAT | 20010102 | Panoramic image capture aid | 396/322 | 396/281; 396/429; 396/661 | Ray; Lawrence A. |
| US 6118946 A | USPAT | 20000912 | Method and apparatus for scannerless range image capture using photographic film | 396/89 | 356/3; 382/106; 396/155; 396/222; 396/311; 396/429 | Ray; Lawrence A. et al. |
| US 6023588 A | USPAT | 20000208 | Method and apparatus for capturing panoramic images with range data | 396/20 | 396/322; 396/325 | Ray; Lawrence A. et al. |
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| US 5789726 A | USPAT | 19980804 | Method and apparatus for enhanced transaction card compression employing interstitial weights | 235/380 | 382/220 | Ray; Lawrence A. et al. |
| US 5764231 A | USPAT | 19980609 | Method and apparatus for creating geometric depth images using computer graphics | 345/419 | | Ray; Lawrence A. et al. |
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| US 5673376 A | USPAT | 19970930 | Method and apparatus for graphically generating images of arbitrary size | 34,5/427 | 345/428 | Ray; Lawrence A. et al. |
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| US 5586203 A | USPAT | 19961217 | Method and apparatus for generating a halftone pattern for a multi-level output device | 382/270 | 358/3.22 | Spaulding; Kevin E. et al. |
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| US 5555012 A | USPAT | 19960910 | Method and apparatus for improved use of thermal donor media | 347/217 | 347/215 | Ellson; Richard N. et al. |
| US 5473327 A | USPAT | 19951205 | Method and apparatus for data encoding with reserved values | 341/55 | | Ray; Lawrence A. et al. |
| US 5466918 A | USPAT | 19951114 | Method and apparatus for image compression, storage, and retrieval on magnetic transaction cards | 235/380 | 382/115; 382/232; 902/5 | Ray; Lawrence A. et al. |
| US 5455902 A | USPAT | 19951003 | Method and apparatus for performing real-time computer animation | 345/473 | 703/5 | Ellson; Richard N. et al. |
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| US 5420705 A | USPAT | 19950530 | Secondary quantization of digital image signals | 358/523 | 375/240.05 | Ray; Lawrence A. |
| US 5377025 A | USPAT | 19941227 | Optimal color quantization for addressing multi-dimensional color calibration look-up-table | 358/518 | 358/519; 358/520; 358/523 | Spaulding; Kevin E. et al. |
| US 5321751 | USPAT | 19940614 | Method and apparatus for credit | 713/186 | 283/904; | Ray; |

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| <u>A</u> | | | card verification | | 705/72; 902/5 | Lawrence A. et al. |
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| US 5214517 A | USPAT | 19930525 | Digital halftoning with correlated minimum visual modulation patterns | 358/3.19 | 358/448; 358/463 | Sullivan; James R. et al. |
| US 4861140 A | USPAT | 19890829 | Method of making a thin lens | 359/642 | 359/900 | Lucitte; Richard D. et al. |

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